Oracle Financial Services Regulatory Reporting for De Nederlandsche Bank (OFS AGILE RP DNB)

Installation Guide

Release 8.0.4.0.0

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DOCUMENT CONTROL

Version Number	Revision Date	Changes Done
1.0	Created: April 2017	Document contents are categorized to appropriate sections and structured considering all the 8.0.4 features.
Created by: Sreejith Pai / Naveen Harry D'Cruz	Reviewed by: Sreejith Pai	Approved by: Nandeesh S / Surag Ramachandran

Executive Summary

The document consists of all the installation, Pre and Post configuration procedures which have been structured considering all the 8.0.4.0.0 features. You can find the latest copy of this document in OTN library which includes all the recent additions/revisions (if any) done till date.

Before you begin the installation, ensure that you have an access to Oracle Support Portal with the required login credentials to quickly notify us for any specific issues. You can obtain one by contacting Oracle Support.

TABLE OF CONTENTS

Preface

Oracle Financial Services Regulatory Reporting for De Nederlandsche Bank (OFS_AGILE_RP_DNB) enables the customers to enables the banks to comply with BCBS 239 regulations. It integrates risk data reporting systems and enhances the accuracy of reporting in banks. OFS Risk Regulatory Solution (RRS) helps in achieving the objectives by enabling preset steps based on the generalization of a set of solutions. This is made possible by:

- Providing a centralized data storage for risk data through relevant subject areas of Financial Services Data Foundation (FSDF).

- Interfacing with a Regulatory Reporting tool – OFS AgileREPORTER to build necessary template reports to meet the regulatory expectations.

- Managing accuracy of risk reporting through Data Governance Studio (DGS).

This document provides step-by-step instructions to install the Oracle Financial Services Regulatory Reporting for De Nederlandsche Bank (OFS_AGILE_RP_DNB) Release 8.0.4.

This chapter discusses the following topics:

- Audience

- Scope

- Prerequisites for the Audience

- How this Guide is organized

- Documentation Accessibility

- Access to Oracle Support

- Recommended Environment

- Related Documents

- Conventions and Acronyms

Audience

This manual is meant for Oracle Financial Services Regulatory Reporting for De Nederlandsche Bank System Administrator. It provides step-by-step instructions necessary for installing the OFS_AGILE_RP_DNB application components.

Scope

This manual provides a step-wise instruction to install Oracle Financial Services Regulatory Reporting for De Nederlandsche Bank.

Prerequisites for the Audience

Following are the expected preparations before starting the actual installation:

The document assumes you have experience in installing Enterprise components. Basic knowledge about the Oracle Financial Services Data Foundation Application Pack components, OFSAA Architecture, UNIX commands, Database concepts and Web Server/ Web Application Server is recommended.

How this Guide is Organized

The Installation Manual is organized into the following chapters.

- **Prerequisites** section identifies the hardware and base software environment that is required for a successful installation and functioning of the Oracle Financial Services Regulatory Reporting for European Banking Authority.

- **Installing the Application** section details the steps to be followed during the installation.

- **Post-installation Actions** section details the steps that are required to be performed after a successful installation of Oracle Financial Services Regulatory Reporting for European Banking Authority.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc

Access to Oracle Support

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Related Documents

This section identifies additional documents related to Oracle Financial Services Regulatory Reporting for De Nederlandsche Bank. You can access Oracle documentation online from OHC Documentation Library (OHC):

- Oracle Financial Services Regulatory Reporting for European Banking Authority User Guide

- Oracle Financial Services Data Foundation Installation Manual Release 8.0.3.1.0 Java 7 and Java 8

- Oracle Financial Services Analytical Applications Infrastructure Environment Check Utility Guide (present in this OHC Documentation Library)

Conventions and Acronyms

Conventions	Description
References to sections or chapters in the manual are displayed in *Italics*. Screen names are displayed in the following manner: **Introduction** screen Options and buttons are displayed in **Bold.**	
OFSAAI	Oracle Financial Services Analytical Applications Infrastructure
OFS AAAI	Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack
RHEL	Red Hat Enterprise Linux
Atomic Schema	Database schema where the application data model is uploaded.
Config Schema	Database schema which contains setup related configurations and metadata.
OFS_AGILE_RP_DNB	Oracle Financial Services Regulatory Reporting for De Nederlandsche Bank.

1 Hardware and Software Requirements and Specifications

This section describes the various Operating Systems, Database, Web Server, and Web Application Server version and other variant details on which this release of the OFS Regulatory Reporting for De Nederlandsche Bank (OFS_AGILE_RP_DNB) application has qualified.

1.1 Configurations Supported for Java 7

The following table shows the minimum hardware and software requirements for OFS_AGILE_RP_DNB (Java 7) application on each machine.

Requirement	Sub-Category	Value
Operating System	Oracle Linux / Red Hat Enterprise Linux (x86-64)	Oracle Linux Server release 5.3 up to 5.10 - 64 bit Oracle Linux Server release 6.0 and above - 64 bit **Note**: Same versions of RHEL are supported.
	Shell	KORN Shell (KSH)
Note: If the operating system is RHEL, install the package `lsb_release` using one of the following commands by logging in as `root` user: • yum install redhat-lsb-core • yum install redhat-lsb		
Java Runtime Environment	Oracle Linux / Red Hat Enterprise Linux	Oracle Java Runtime Environment (JRE) 1.7.x - 64 bit
Oracle Database Server and Client	Oracle Database Server Enterprise Edition 11g Release 2 (11.2.0.3.0 +) - 64 bit RAC/ Non-RAC with/ without partitioning option Oracle Database Server Enterprise Edition 12c Release 1 (12.1.0.1.0 +)- 64 bit RAC/ Non-RAC with/ without partitioning option Oracle Client 11g Release 2 (11.2.0.3.0+) - 64 bit Oracle Client 12c Release 1 (12.1.0.1.0+) - 64 bit Oracle 11g Release 2 (11.2.0.3+) JDBC driver (Oracle thin driver) Oracle 12C Release 1 (12.1.0.1+) JDBC driver (Oracle thin driver) **Note**: Ensure that the following patches are applied: Oracle Server 12c, v12.1.0.1 – 17082699 Oracle Server 12c, v12.1.0.2 - 19392604, 19649591 Also for latest information, refer http://support.oracle.com/, 12.1.0.2 Bundle Patches for Engineered Systems and DB In-Memory - List of Fixes in each Bundle (Doc ID 1937782.1)	
OLAP	Oracle Hyperion Essbase	V 11.1.2.1+ (Server and Client) with Oracle 11g Database V 11.1.2.3+ (Server and Client) with Oracle 12c Database

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Requirement	Sub-Category	Value
	Oracle OLAP	V 11.2.0.3+ with Oracle 11g Database V 12.1.0.1+ with Oracle 12c Database
	Note: Oracle Hyperion Essbase & Oracle OLAP is required only if you are using the OLAP feature of OFSAAI. For Oracle OLAP, ensure that you have configured the Oracle Database server with OLAP option.	
Web Server/ Web Application Server	Oracle Linux / Red Hat Enterprise Linux	Oracle HTTP Server 11.1.1.1/ Apache HTTP Server 2.2.x/ IBM HTTP Server • Oracle WebLogic Server 12.1.2+ (64 bit) • IBM WebSphere Application Server 8.5+ with bundled IBM Java Runtime (64 bit) • Apache Tomcat 8.0.x (64 bit)
	Note: OFSAA Infrastructure web component deployment on Oracle WebLogic Server with Oracle JRockit is not supported.	
Desktop Requirements	Operating System	MS Windows 7/ Windows 8/ Windows 8.1
	Browser	MS Internet Explorer 9 , 10(Compatibility Mode) and 11 (Compatibility Mode) Oracle Java plug-in 1.7.0+* (64- bit) Turn on Pop-up blocker settings. For more information, refer Internet Explorer Settings.
	Office Tools	MS Office 2007/ 2010/2013 Adobe Acrobat Reader 8 or above
	Screen Resolution	1024*768 or 1280*1024
Directory Services	-	OFSAAI is qualified on both OPEN LDAP 2.2.29+ and Oracle Internet Directory v 11.1.1.3.0. However, it can be integrated with other directory services software like MS Active Directory.
	Note: Configuration of Directory services software for OFSAAI installation is optional. For more information on configuration, see Infrastructure LDAP Configuration. Open LDAP must be installed on MS Windows Server machine only.	

1.2 Configurations Supported for Java 8

The following table shows the minimum hardware and software requirements for installing OFS_AGILE_RP_DNB (Java 8) application on each machine.

Requirement	Sub-Category	Value
Operating System	Oracle Linux / Red Hat Enterprise Linux (x86-64)	Oracle Linux Server release 5.3 up to 5.10 - 64 bit Oracle Linux Server release 6.0 and above - 64 bit **Note**: Same versions of RHEL are supported.
	Shell	KORN Shell (KSH)
Note: If the operating system is RHEL, install the package lsb_release using one of the following commands by logging in as root user: • yum install redhat-lsb-core • yum install redhat-lsb		
Java Runtime Environment	Oracle Linux / Red Hat Enterprise Linux	Oracle Java Runtime Environment (JRE) 1.8.x - 64 bit
Oracle Database Server and Client	Oracle Database Server Enterprise Edition 11g Release 2 (11.2.0.3.0 +) - 64 bit RAC/ Non-RAC with/ without partitioning option Oracle Database Server Enterprise Edition 12c Release 1 (12.1.0.1.0 +)- 64 bit RAC/ Non-RAC with/ without partitioning option Oracle Client 11g Release 2 (11.2.0.3.0+) - 64 bit Oracle Client 12c Release 1 (12.1.0.1.0+) - 64 bit Oracle 11g Release 2 (11.2.0.3+) JDBC driver (Oracle thin driver) Oracle 12C Release 1 (12.1.0.1+) JDBC driver (Oracle thin driver) **Note**: Ensure that the following patches are applied: Oracle Server 12c, v12.1.0.1 – 17082699 Oracle Server 12c, v12.1.0.2 - 19392604, 19649591 Also for latest information, refer http://support.oracle.com/, 12.1.0.2 Bundle Patches for Engineered Systems and DB In-Memory - List of Fixes in each Bundle (Doc ID 1937782.1)	
OLAP	Oracle Hyperion Essbase	V 11.1.2.1+ (Server and Client) with Oracle 11g Database V 11.1.2.3+ (Server and Client) with Oracle 12c Database
	Oracle OLAP	V 11.2.0.3+ with Oracle 11g Database V 12.1.0.1+ with Oracle 12c Database
	Note: Oracle Hyperion Essbase & Oracle OLAP is required only if you are using the OLAP feature of OFSAAI. For Oracle OLAP, ensure that you have configured the Oracle Database server with OLAP option.	

Requirement	Sub-Category	Value
Web Server/ Web Application Server	Oracle Linux / Red Hat Enterprise Linux	Oracle HTTP Server 11.1.1.1/ Apache HTTP Server 2.2.x/ IBM HTTP Server • Oracle WebLogic Server 12.1.3+ (64 bit) • Apache Tomcat 8.0.x (64 bit) **Note**: IBM WebSphere 8.5.x (Full Profile) on Java 8 is not available.
	Note: OFSAA Infrastructure web component deployment on Oracle WebLogic Server with Oracle JRockit is not supported.	
Desktop Requirements	Operating System	MS Windows 7/ Windows 8/ Windows 8.1
	Browser	MS Internet Explorer 9 , 10(Compatibility Mode) and 11 (Compatibility Mode) Oracle Java plug-in 1.7.0+* (64- bit) Turn on Pop-up blocker settings. For more information, refer Internet Explorer Settings.
	Office Tools	MS Office 2007/ 2010/2013 Adobe Acrobat Reader 8 or above
	Screen Resolution	1024*768 or 1280*1024
Other Software	Directory Services	OFSAAI is qualified on both OPEN LDAP 2.2.29+ and Oracle Internet Directory v 11.1.1.3.0. However, it can be integrated with other directory services software like MS Active Directory.
	Note: Configuration of Directory services software for OFSAAI installation is optional. For more information on configuration, see Infrastructure LDAP Configuration. Open LDAP needs to be installed on MS Windows Server machine only.	

OFS_AGILE_RP_DNB application recommends the following software combinations for deployment.

Recommended Software Combinations

Operating System	Database	Web Application Server	Web Server
Oracle Linux 5.3 up to 5.10/ 6.0 and above	Oracle Database	Oracle WebLogic Server/ Apache Tomcat Server	Oracle HTTP Server/ Apache HTTP Server

2 Preparing for Installation

This chapter provides necessary information to review before installing the
OFS_AGILE_RP_DNB Application v8.0.4.0.0. This chapter includes the following topics:

- Obtaining the Software

- Prerequisites for Installation

- Configuration for GUI Mode Installation

- Copying and Extracting the Software

2.1 Obtaining the Software

This release of OFS_AGILE_RP_DNB 8.0.4.0.0 can be downloaded from the Oracle Software
Delivery Cloud (https://edelivery.oracle.com). You need to have a valid Oracle account in order to
download the software.

2.2 Prerequisites for Installation

The following are the prerequisites to install OFS_AGILE_RP_DNB application:

- OFS Analytical Applications Infrastructure 8.0.4.0.0 should be installed and configured in your
  Machine.

- OFS Data Foundation 8.0.4.0.0 Application Pack should be installed and configured in your
  Machine.

- OFS AgileREPORTER version 1.15.2 should be installed and configured in your Machine.

- Make sure you have executed **.profile** before you trigger the installation.

- Make sure FIC Server is up and running before you trigger the installation. For information on
  restarting the services, Refer OFS AAI Release 8.0.4.0.0 Installation Guide (OHC
  Documentation Library) for more information.

2.3 Configuration for GUI Mode Installation

To install OFS_AGILE_RP_DNB in GUI mode, you need to ensure the below software and
configurations are available:

- Install and configure any PC X Server software such as Open Text Exceed (formerly
  Hummingbird Exceed) on the user desktop system from which the installation is triggered.

- Configure DISPLAY variable.

  Ensure to set the DISPLAY variable on the system on which the OFSAA is installed, to point
  to the user desktop system where the PC X Server software has been installed.

  Syntax:

  ```
  export DISPLAY=hostname:n.n1
  ```

  where, hostname is the IP Address/ Host Name of the user desktop system and n is the
  sequence number (usually 0).

  For example, `10.11.12.13:0.0` or `myhostname:0.0`

2.4 Copying and Extracting the Software

Once you obtain the installer, copy the installer (in BINARY mode) to the system on which the OFS_AGILE_RP_DNB application components are installed.

NOTE: You must be logged in to the UNIX operating system as a non-root user.

1. Download the unzip utility (OS specific) `unzip_<os>.Z`, and copy it in Binary mode to any directory and include the directory in your PATH variable. If you already have the unzip utility to extract the contents of the downloaded archive, skip to the next step.

2. Uncompress the unzip installer file using the command:

   ```
   uncompress unzip_<os>.Z
   ```

NOTE: In case you notice an error message "uncompress: not found [No such file or directory]" when the package is not installed, contact your UNIX administrator.

3. Give EXECUTE permission to the file using the command:

   ```
   chmod 751 unzip_<os>
   ```

   For example, chmod 751 unzip_sparc

4. Extract the contents of the OFS_AGILE_RP_DNB 8.0.4.0.0 in the Download Directory installer archive file using the following command:

   ```
   unzip OFS_AGILE_RP_DNB_8.0.4.0.0_<os>.zip
   ```

NOTE: DO NOT rename the Application installer folder name on extraction from the archive.

5. Give below permission to the installer folder. Navigate to the Download Directory and execute the command:

   ```
   chmod -R 755 OFS_AGILE_RP_DNB
   ```

3 Oracle Financial Services Regulatory Reporting for De Nederlandsche Bank

The OFS_AGILE_RP_DNB installer can be installed in both GUI and silent mode.

For executing the installer in silent mode, refer to the section Silent Mode Installation.

For running in GUI mode:

1) Log in to the system as **non-root user**

2) Execute the user **.profile**

3) Navigate to installer location OFS_AGILE_RP_DNB**/bin**

4) Run the installer in GUI Mode by executing the command:

    ./setup.sh GUI

Refer to the below steps for installation in GUI mode:

1. Execute the following command to start the installation for Oracle Financial Services Regulatory Reporting for De Nederlandsche Bank – Lombard Risk Integration Pack:

    ./Setup.sh GUI

```
/scratch/ofsaaapp1/kit/804/OFS_AGILE_RP_DNB/bin>ls
Setup.bin  Setup.sh
/scratch/ofsaaapp1/kit/804/OFS_AGILE_RP_DNB/bin>./Setup.sh GUI


Shutdown of OFSAAI services started...
Shutdown of OFSAAI services done.
Starting OFSAA Service...
OFSAA Service - OK
Starting installation...
Preparing to install...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

Launching installer...
```

Installation Start Screen

Installation Splash Screen

2. The **Introduction** screen displays the prerequisites for installation. Ensure that the prerequisites are satisfied before you proceed.
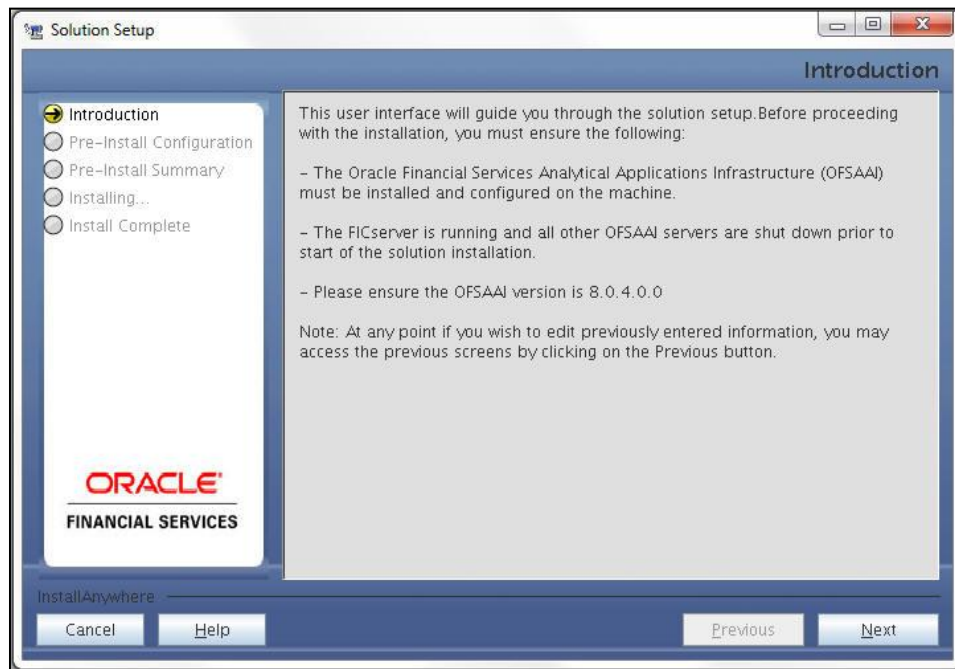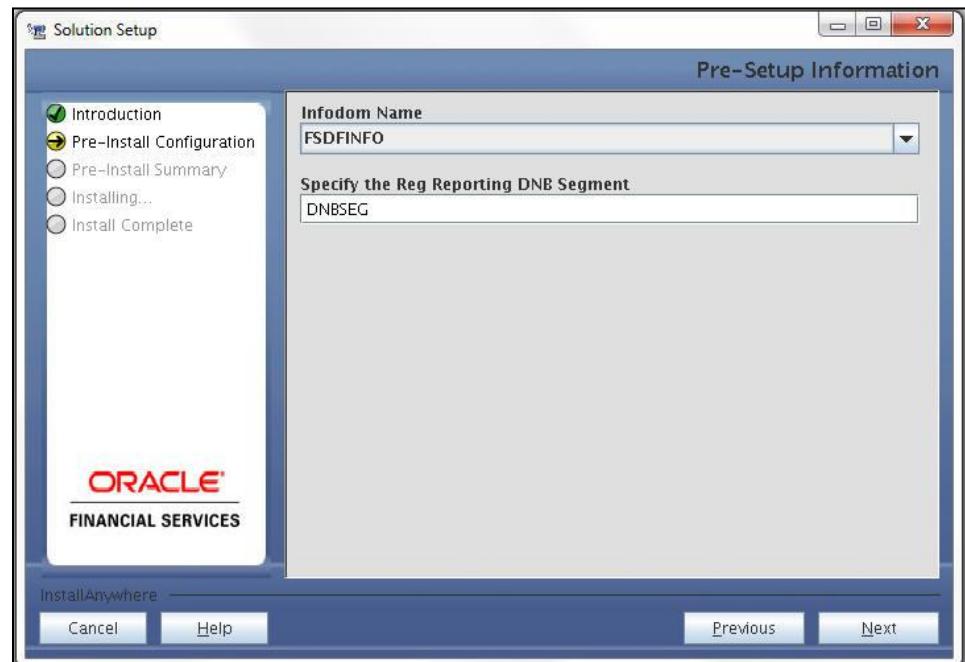

Introduction Screen

3. Choose the **Log Mode** for this installer. If you select, **Debug**, the Passwords are printed in the log file.
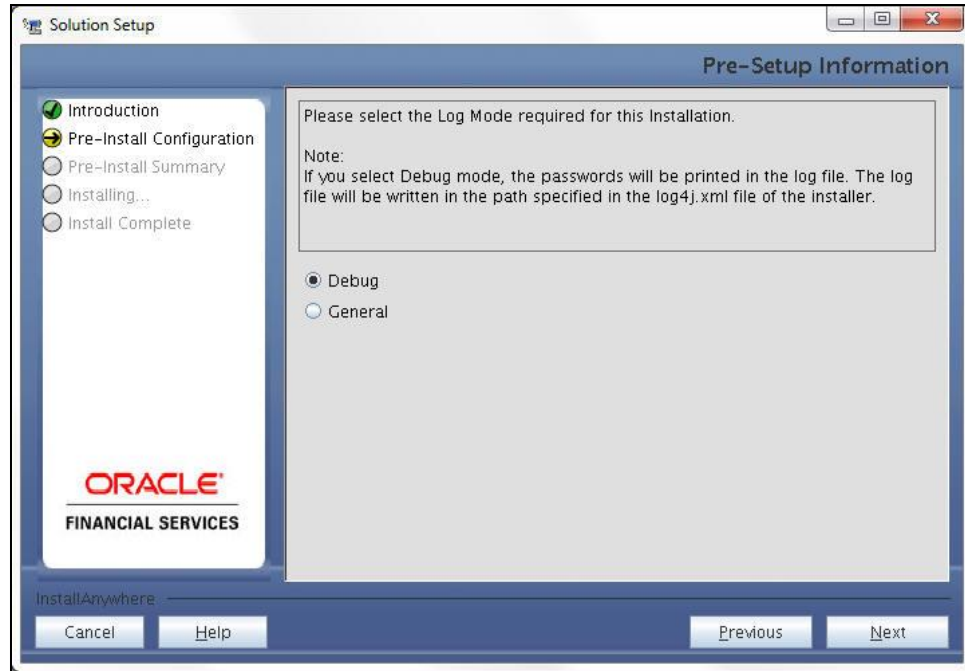
Pre-Setup Information – Log Mode Screen

4. In the **Pre-Setup Information** screen, specify the existing infodom name to be used for the application installation and click **Next**.

Pre-Setup Information – Infodom Type Screen

5. In the **Pre-Setup Information** screen, select **New application/source pair** to create a new ETL application and click **Next**.
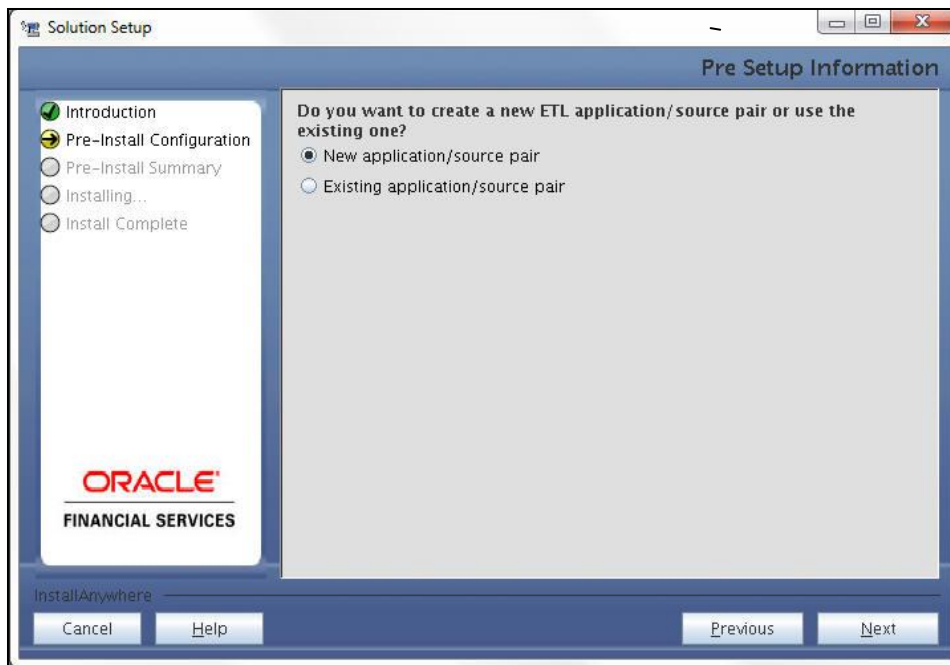
Pre-Setup Information – ETL Application Selection Screen

6. In the **Pre-Setup Information** screen, enter the **ETL Application Name** and **Description** as you wish and **ETL Source Name** and **Description** as you wish. Then click **Next**.
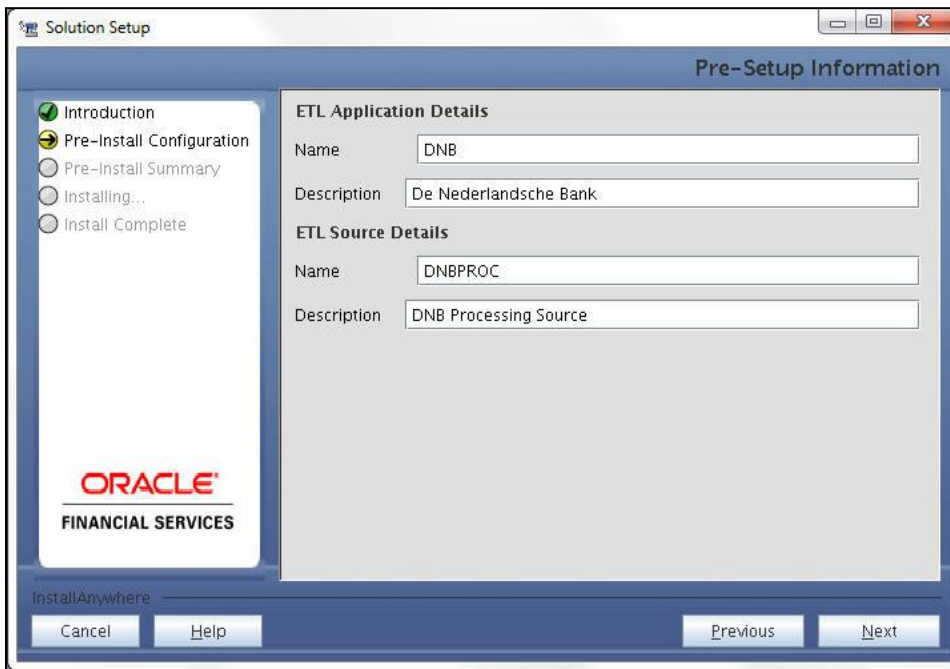
Pre-Setup Information – ETL Application Details Screen

7. In the **Pre-Setup Information** screen, enter the **OFSAAI User ID** and click **Next**.

    Default Value is: **SYSADMN**
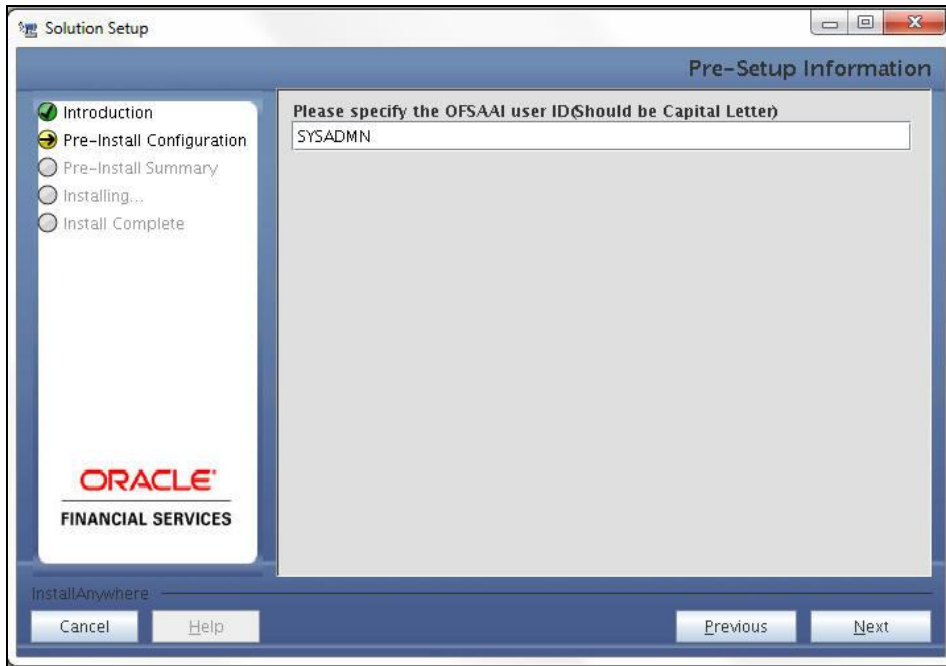
Pre-Setup Information – OFSAAI User ID Screen

8. The **Pre-Install Configuration** (**Please Wait**) screen is displayed.
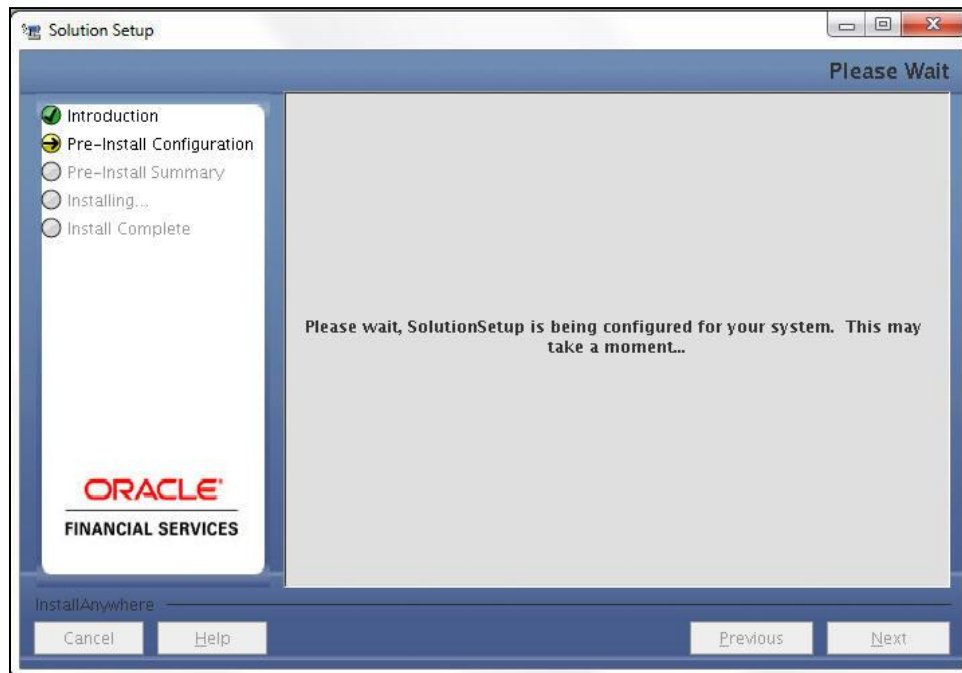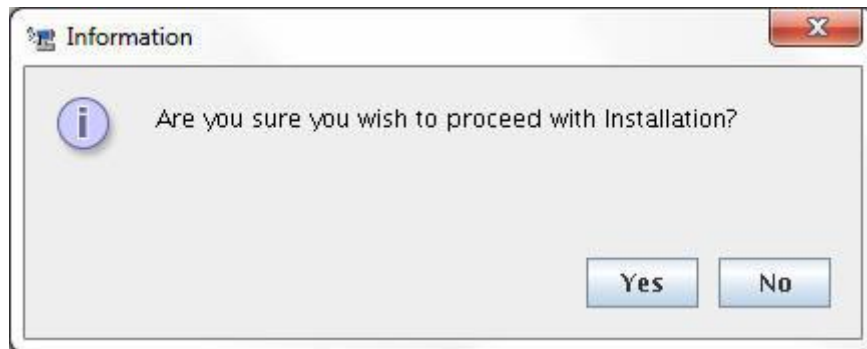

Pre-Install Configuration – Please Wait Screen

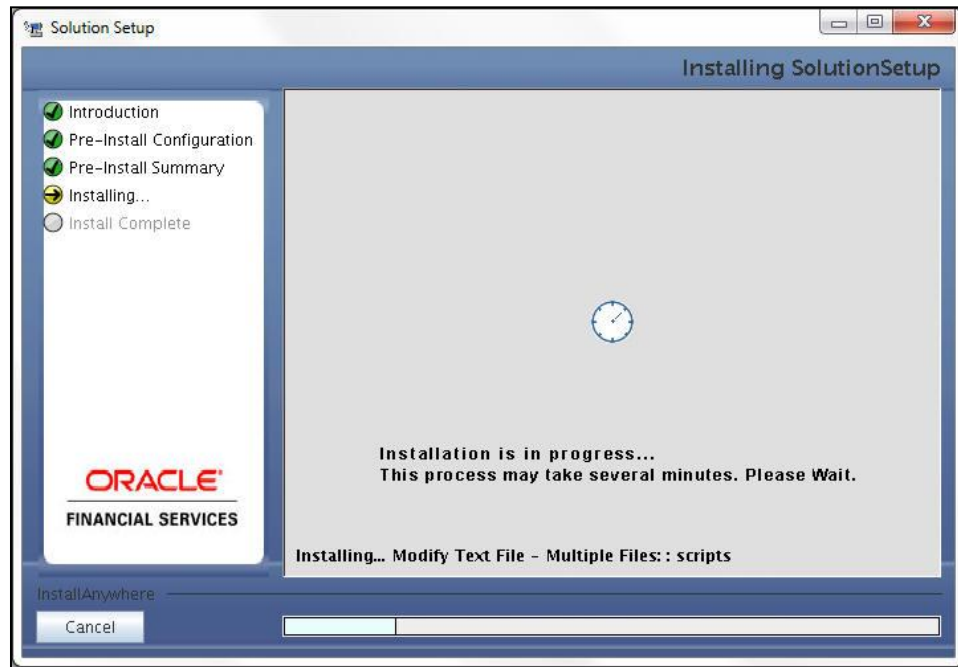9. Review the settings in the **Pre-Installation Summary** screen and click **Install**.
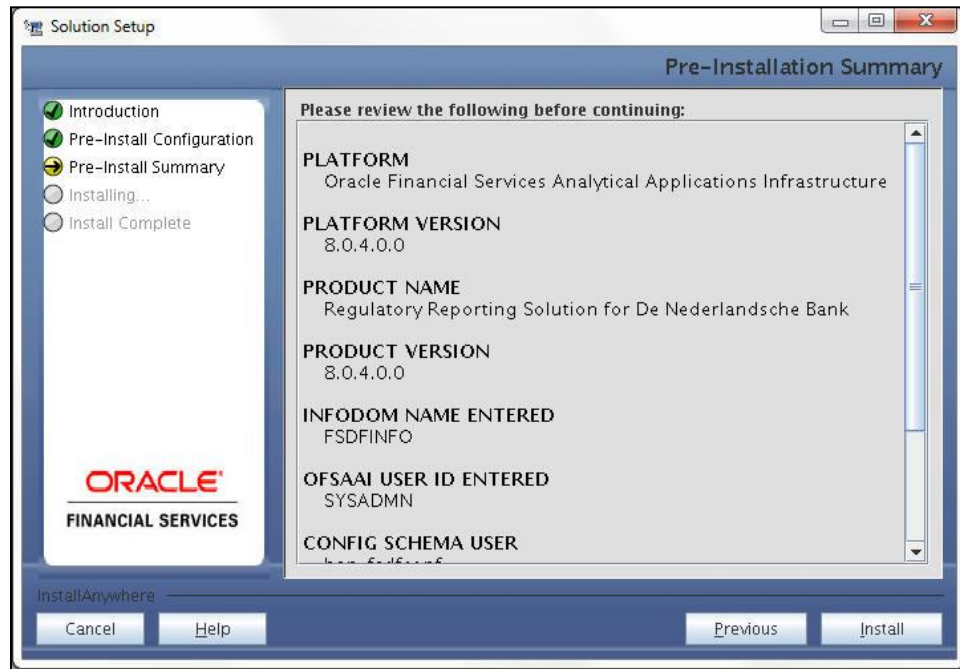
Pre-Installation Summary Screen

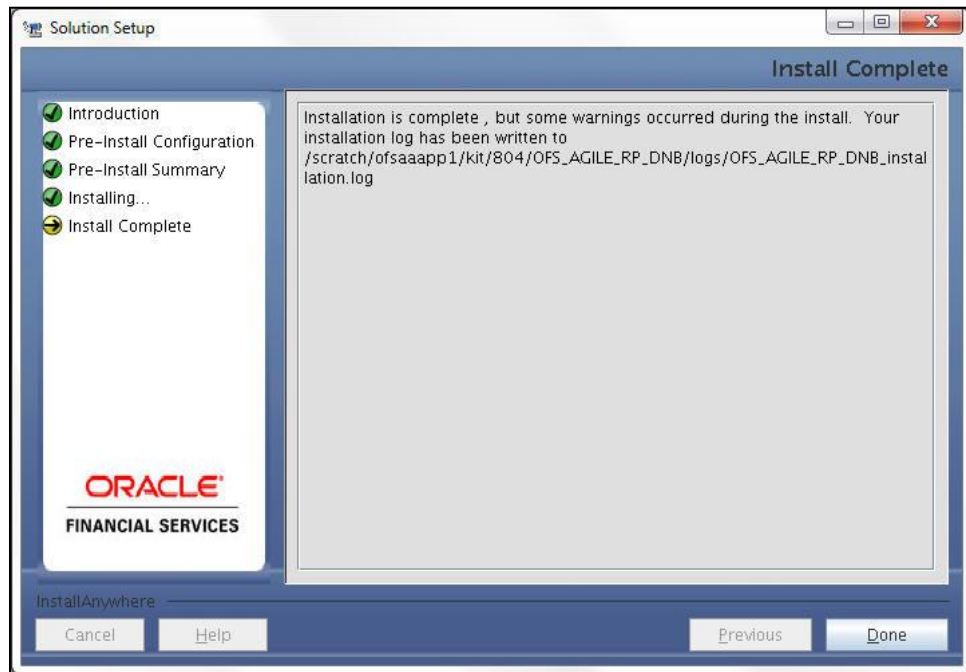10. The following message is displayed. Select **Yes** to begin the installation process.

Confirmation Screen

11. The **Installing SolutionSetup** screen is displayed.

Installing SolutionSetup Screen

12. The **Install Complete** screen is displayed.

Installation Complete Screen

13. Refer to the log file created in the path `/OFS_AGILE_RP_DNB/logs` of installer directory for any error messages.

14. Click **Done** to complete the installation.


```
Installation Completed...

****************************************************
CTRL characters removal started ...
off
on
CTRL characters removal over ...
We are now in /scratch/ofsaaapp1 ...
****************************************************
/scratch/ofsaaapp1/kit/804/OFS_AGILE_RP_DNB/bin>
```

Installation End Screen

4   Silent Mode Installation

Silent installation is achieved via a properties file (**Silent.props**) that must be updated with proper values, before attempting to install using the silent mode. Follow the below steps to install the product in Silent Mode:

1)   Navigate to installer directory OFS_AGILE_RP_DNB**/conf** containing the template file **Silent.template**.

2)   Create a copy of this file and rename the copy as **Silent.props**.

3)   Edit the **Silent.props** file and specify the parameters as per the requirements.

The following table lists all the properties that must be specified.

Property Name	Description of Property	Permissible Values	Comments
LOG_MODE	Mode for logging	0 = Debug 1= General	Optional; Default : 0
INFODOM_NAME	Specify name of Information Domain (Infodom) into which you wish to install.	For example: OFSBFNDINFO	MANDATORY. Specify Infodom Name Value where FSDF Application is got installed
APPFTP_LOG_PATH	Specify the Infodom App Maintenance log path	For example: /home/ftpshare/OFSBFNDINFO/logs	MANDATORY. Path value should be same as the path which was given during FSDF installation
DBFTP_LOG_PATH	Specify the Infodom DB Maintenance log path	For example: /home/ftpshare/OFSBFNDINFO/logs	MANDATORY. Path value should be same as the path which was given during FSDF installation
SEGMENT_1_CODE	Specify the De Nederlandsche Bank Segment Code	For example: DNBRPSEG	MANDATORY
ETL_APPSRC_TYPE	Please specify if you want create new ETL App/Src pair or use an existing one.	0 = If you want to create a new ETL app/src pair 1 = If you want to use an existing pair	MANDATORY

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ETL_APP_1_NAME	Specify the ETL Application Name where the Definitions will be deployed.	For example: DNB	MANDATORY
ETL_SRC_1_1_NAME	Specify the ETL Source Name into ETL Area Definitions will be deployed	For example: PROCESSING	MANDATORY
ETL_APP_1_DESC	Please give description for the ETL Application	For example: DNB Application	MANDATORY WHEN ETL_APPSRC_TYPE = 0
ETL_SRC_1_1_DESC	Please give description for the ETL Source	For example: DNB Processing Source	MANDATORY WHEN ETL_APPSRC_TYPE = 0

1) Log in to the system as **non-root** user

2) Execute the user **.profile**

3) Navigate to installer location **OFS_AGILE_RP_DNB/bin**

4) Run the installer in SILENT Mode with the following command:

   ```
   ./setup.sh SILENT
   ```

Refer to the console log (or the **preinstall.log** file) for any error messages.

5   Post Installation Actions

After the installation is complete, perform the following activities:

- Refer to the log file in the path **/OFS_AGILE_RP_DNB/logs** to ensure that there are no errors reported.

- Restart all the OFSAAI Servers. Refer OFS AAI Release 8.0.3 Installation Guide ([OTN Documentation](#) library) for more information.

The Oracle Financial Services Regulatory Reporting for De Nederlandsche Bank is now ready for use. If you encounter any problems during set up, contact OFSAA Support at [Oracle Support Services](#).

6   Config Package and Template Package Deployment

This section describes the order to deploy the config package after saving the derived entities:

1. To deploy the product configuration on AgileREPORTER using the package
   AR_DNB_Package_v1_0_0_2.zip bundled inside **Template_Package** folder of installer:

   a. Navigate to **<AgileREPORTER>/bin** under the installed location

   b. Add a new configuration with the following command:

   ```
   ./config.sh -a <Template_Package Full Path>
   ```

   For example:

   ```
   ./config.sh -a /scratch/kit/803/OFS_AGILE_RP_DNB/
   Template_Package/ AR_ECR_Package_v1_25_0_4.zip
   ```

2. To deploy the product configuration on AgileREPORTER using the package
   OFSAA_REG_REP_DNB_80400.zip bundled inside **Config_Package** folder of installer:

   a. Navigate to **<AgileREPORTER>/bin** under the installed location

   b. Add a new configuration with the following command:

   ```
   ./config.sh -a <Config_Package Full Path>
   ```

   For example:

   ```
   ./config.sh –a /scratch/kit/803/OFS_AGILE_RP_DNB/Config_Package/
   OFSAA_REG_REP_DNB_80400.zip
   ```

   c. Activate the configuration with the following command:

   ```
   ./config.sh -t OFSAA_REG_REP_DNB_80400 -iv 8.0.4.0.0
   ```

   d. Update the Alias with the following command:

   ```
   ./config.sh -ea OFSAA_REG_REP_DNB_80400 -iv 8.0.4.0.0 –alias
   "OFSAA DNB DATA SOURCE" -aif
   <AgileREPORTER>/bin/aliasinfo.properties
   ```

If you encounter any problems during deployment, contact OFSAA Support at Oracle Support Services.

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Oracle Financial Services Regulatory Reporting for De Nederlandsche Bank (OFS AGILE RP DNB)

Installation Guide

Oracle Corporation
World Headquarters
500 Oracle Parkway
Redwood Shores, CA 94065
U.S.A.

Worldwide Inquiries:
Phone: +1.650.506.7000
Fax: +1.650.506.7200
www.oracle.com/us/industries/financial-services/